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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/562,054	12/23/2005	Naoki Hashiguchi	025260-105	4344

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BUCHANAN, INGERSOLL & ROONEY PC  
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EXAMINER
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KRUER, STEFAN

ART UNIT	PAPER NUMBER
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3654

NOTIFICATION DATE	DELIVERY MODE
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06/11/2008

ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ADIPFDD@bipc.com

<b>Office Action Summary</b>	<b>Application No.</b> 10/562,054	<b>Applicant(s)</b> HASHIGUCHI, NAOKI	
	<b>Examiner</b> Stefan Krueer	<b>Art Unit</b> 3654	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 19 May 2008.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1, 5 - 6, 9 - 10, 15 - 18 and 20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1, 5 - 6 and 16 is/are allowed.
- 6) ☒ Claim(s) 9 - 10, 15, 17 - 18 and 20 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 23 December 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                     | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

## **DETAILED ACTION**

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

**Claim 15** is rejected under 35 U.S.C. 102(b) as being anticipated by Niigato Engineering Co. Ltd. (JP 50-124063, henceforth Niigato).

Niigato discloses an elevator apparatus comprising:

- a car (5) having a wall portion, for being raised and lowered within a hoistway;
- a car guide rail (4) installed within the hoistway, for guiding the car when the car is raised and lowered; and
- a car guide shoe (6) mounted on the car, for engaging with the car guide rail, wherein the wall portion is provided with a recess;
- the car guide shoe is at least partially disposed in the recess on a vertical projection plane;
- the car is provided with a suspending portion (13, Fig. 3) to which a main suspending member (7) for suspending the car is connected; and
- the suspending portion is disposed in the recess common to the car guide shoe on a vertical projection plane.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

**Claims 9 – 10, 17 and 20** are rejected under 35 U.S.C. 103(a) as being unpatentable over Masumoto (JP-64069489) in view of Tomaseti (5,975,249).

**Re: Claim 9**, Masumoto discloses an elevator apparatus comprising:

- A car (21, Fig. 2) having a his wall portion (22a), for being raised and lowered within a hoistway (30) having a front face (opposite 5) provided with a car entrance (22a),
- A car guide rail (31) installed within the hoistway, for guiding the car when the car is raised and lowered; and
- A car guide shoe (29) mounted on the car, for engaging the car guide rail, wherein
- The wall portion is provided with a recess (25) and has a front face provided with a car entrance (approx. 5), a rear face facing the front face (approx. 22), a first side face (left, approx. 25) and a second side face (right, approx. 25) facing the first side face;
- a rear face (by 22) facing the front face,
- the recess includes a first recess provided in the first side face, and a second recess (25) provided in the second side face, the first recess and the second recess projecting into an interior of the car (at 23a of 23, Fig 3); however,

Masumoto is silent with respect to his guide shoe at least partially disposed in his recess.

Attention is directed to Tomaseti who teaches his car guide shoes (15) disposed within his recess(es) (8) for feature of his rucksack (cantilevered) suspension affording compactness and accommodating loads within a sheet metal framework.

It would have been obvious to one of ordinary skill in the art to modify the reference of Masumoto with the teaching to Tomaseti for versatility and space savings.

**Re: Claim 10**, Masumoto discloses:

- the car guide rail includes a first car guide rail opposed to the first recess, and a second car guide rail opposed to the second recess;

- the car is provided on the first side face side with a first suspending portion (24, Fig. 1 & 2) to which a first main suspending member (33, Fig. 1 & 2) for suspending the car is connected;
- the car is provided on the second side face side with a second suspending portion (24) to which a second main rope suspending member (33) for suspending the car is connected;
- and the first car guide rail and the second car guide rail have a pitch between car guide rail rear faces which is set equal to or smaller than a car suspension pitch (rope portion running behind guide rail, Fig. 1).

**Re: Claim 17**, though Matsumoto is silent regarding a car door drive and a plurality of car doors that overlap one another in a door-open state, the implementation of car door drives and overlapping doors are well known in the art.

**Re: Claim 20**, Mizuno is silent regarding a safety device.

Tomaseti teaches his safety device (21, 24) for arresting the travel of his car, wherein his safety device is at least partially disposed in his recess.

It would have been obvious to one of ordinary skill in the art to modify the reference of Mizuno with the teaching of Tomaseti to provide a safety device as known in the art.

**Claim 18** is rejected under 35 U.S.C. 103(a) as being unpatentable over Masumoto (JP-64069489) in view of Mitsui (EP 1 319 627 A1).

Masumoto discloses:

- a drive device having a drive sheave (32);
- a first main suspending member (33) and a second main suspending member (33) wound around the drive sheave;
- a car (21) having a first suspending portion (24) to which the first main suspending member is connected and a second suspending member portion (24) to which the second main rope suspending member is connected, for being raised and lowered within a hoistway through a driving force of the drive device;

- and a first car guide rail (31) and a second car guide rail (31) installed within the hoistway, for guiding the car when the car is raised and lowered; however,

Masumoto is silent with respect to his first car guide rail and the second car guide rail have a pitch between car guide rail rear faces which is set equal to or smaller than a car suspension pitch defined by the first suspending portion (37, alternatively 24) and the second suspending portion (38, alternatively 24), in a width direction of the car.

Attention is directed to Mitsui who teaches his first car guide rail (2, Fig. 4) and the second car guide rail (2) have a pitch between car guide rail rear faces which is set equal to a car suspension pitch defined by the first suspending portion (16 at 9 or alternatively, 11) and the second suspending portion (17 at 10 or alternatively, 12), in a width direction of his car (4), for his balancing suspension members and reducing hoist space.

It would have been obvious to one of ordinary skill in the art to modify the reference of Masumoto with the teaching of Mitsui for utility as well as within the skill of one having ordinary skill in the art within the bounds of optimization and experimentation.

#### ***Allowable Subject Matter***

**Claims 1, 5 – 6 and 16** are allowed.

#### ***Response to Arguments***

Applicant's arguments filed 18 April 2008 have been fully considered but they are not fully persuasive.

With respect to Claim 9, Tomaseti teaches the disposition of guide shoes within his recess (8) for engagement with his guide rail (34), said recess of general form and purpose similar to the form and purpose of the recess of Matsumoto. That his guide shoes are mounted above and below his safety device within his recess does not affront the claim language not the intended use of the instant invention.

Examiner disagrees with applicant's interpretation of the reference of Niigato with respect to Claim 15, in that his suspending portion is disposed in the recess common to their car guide shoe on a vertical projection plane, as noted above. His suspending portion(s), as interpreted, is displaced in their recess as depicted in Figures 2 and 3 and in keeping with the intent of the instant invention. Furthermore, with respect to applicant's interpretation, a suspending portion (7c) is disposed within the boundaries of the recess as well. That applicant's interpreted suspending portion is connected to an element (8) at a bottom side of the car upon passing through said recess does not contradict the claim language.

In response to the amendment to Claim 18, the teaching of Mitsui has been applied accordingly.

With respect to Claim 20, Hyman teaches his safety device disposed within his recess as seen in a vertical projection plane, whereby his safety device is to engage his guide rail; however, upon further review of the claim language, the teaching of Tomaseti meets the claim language, thereby obviating the reference of Hyman.

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Darwent et al (4,249,640) is cited for reference of a car having first and second chamfered portions located along a diagonal of their cage, as well as guide shoes and a safety device disposed within their chamfered portions.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stefan Kruer whose telephone number is 571.272.5913. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Cuomo can be reached on 571.272.6856. The fax phone number for the organization where this application or proceeding is assigned is 571.273.8300.

Art Unit: 3654

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866.217.9197 (toll-free).

/Stefan Kruer/

Examiner, Art Unit 3654

5 June 2008

/Peter M. Cuomo/

Supervisory Patent Examiner, Art Unit 3654